

MAR 30 2005

*Free purpose only*

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Frederick David Gray, et al.	§	Confirmation No.:	7169
		§		
Serial No.:	10/672,045	§	Group Art Unit:	3672
		§		
Filed:	September 26, 2003	§	Examiner:	Toan M. Le
		§		
For:	Reservoir Fracture Characterization	§	Atty. Docket No.:	1780-03601
		§		

**RESPONSE TO OFFICE ACTION OF DECEMBER 22, 2004**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, Virginia 22313-1450

Atty. Dkt. No.: 1780-03601  
Date: March 30, 2005

Dear Sir:

This paper is submitted in response to the above-named office action to further highlight why the application is in condition for allowance.

Amendments to the Claims are reflected in the listing of the claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 4 of this paper.

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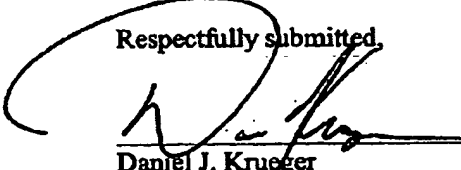
Appl. No.: 10/672,045  
Amdt. dated March 30, 2005  
Reply to Office action of December 22, 2004

limitations into independent claim 12. Claims 12 and 14 are consequently believed to be in condition for allowance.

### Conclusion

In the course of the foregoing discussions, applicant may have at times referred to claim limitations in shorthand fashion, or may have focused on a particular claim element. This discussion should not be interpreted to mean that the other limitations can be ignored or dismissed. The claims must be viewed as a whole, and each limitation of the claims must be considered when determining the patentability of the claims. Moreover, it should be understood that there may be other distinctions between the claims and the prior art which have yet to be raised, but which may be raised in the future. If any fees are inadvertently omitted or if any additional fees are required or have been overpaid, please appropriately charge or credit those fees to Conley Rose, P.C. Deposit Account Number 03-2769/1780-03601/HDJK.

Respectfully submitted,

  
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PATENT APPLICATION FEE DETERMINATION RECORD						Application or Docket Number <b>10/672045</b>	
Substitute for Form PTO-875							
CLAIMS AS FILED - PART I				SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
(Column 1)		(Column 2)		RATE		FEE	
FOR	NUMBER FILED	NUMBER EXTRA		RATE	FEE		
BASIC FEE (37 CFR 1.16(a))					\$ _____		
TOTAL CLAIMS (37 CFR 1.16(c))	minus 20 =			X \$ _____ =			
INDEPENDENT CLAIMS (37 CFR 1.16(b))	minus 3 =			X \$ _____ =			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(d))				+ \$ _____ =			
				TOTAL		OR TOTAL	
<p>* If the difference in column 1 is less than zero, enter "0" in column 2.</p>							
CLAIMS AS AMENDED - PART II				SMALL ENTITY		OR OTHER THAN SMALL ENTITY	
(Column 1)		(Column 2)		(Column 3)			
AMENDMENT A	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE		
Total (37 CFR 1.16(c))	18	Minus 20	=	X \$ _____ =			
Independent (37 CFR 1.16(b))	3	Minus 3	=	X \$ _____ =			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))				+ \$ _____ =			
				TOTAL ADD'L FEE		OR TOTAL ADD'L FEE	
(Column 1)				(Column 2)		(Column 3)	
AMENDMENT B	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE		
Total (37 CFR 1.16(c))		Minus	=	X \$ _____ =			
Independent (37 CFR 1.16(b))		Minus	=	X \$ _____ =			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))				+ \$ _____ =			
				TOTAL ADD'L FEE		OR TOTAL ADD'L FEE	
(Column 1)				(Column 2)		(Column 3)	
AMENDMENT C	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE	ADDITIONAL FEE		
Total (37 CFR 1.16(c))		Minus	=	X \$ _____ =			
Independent (37 CFR 1.16(b))		Minus	=	X \$ _____ =			
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(d))				+ \$ _____ =			
				TOTAL ADD'L FEE		OR TOTAL ADD'L FEE	

\* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

\*\*\* If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

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